

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Cancel claims 23-34.

Add claims 35-57 as follows:

35. (New) An apparatus for dispensing materials to vegetation, the apparatus comprising
- a conduit including a channel;
 - an outlet coupled to the channel for conveying a substance from the channel to the vegetation; and
 - a sensor coupled to the conduit, for sensing a condition related to growth of the vegetation.
36. (New) The apparatus of claim 35, wherein one or more sensors is associated with a particular outlet, the apparatus further comprising
- a flow control coupled to the particular outlet for regulating an amount of the substance conveyed to the vegetation; and
 - a control system coupled to the flow control and to the one or more sensors associated with the particular outlet, for sending a signal to regulate an amount of the substance conveyed to the vegetation in response to a signal from the one or more sensors.
37. (New) The apparatus of claim 36, wherein the control system includes a microprocessor.
38. (New) The apparatus of claim 35, wherein the sensor includes an optical sensor.
39. (New) The apparatus of claim 38, wherein the sensor includes a photodetector.
40. (New) The apparatus of claim 35, wherein the sensor includes a humidity sensor.

41. (New) The apparatus of claim 35, wherein the sensor includes a leaf wetness sensor.

42. (New) The apparatus of claim 35, wherein the sensor includes a temperature sensor.

43. (New) The apparatus of claim 35, wherein the sensor includes an insect sensor.

44. (New) The apparatus of claim 43, wherein the sensor includes a protein sensor.

45. (New) The apparatus of claim 43, wherein the sensor includes a DNA sensor.

46. (New) The apparatus of claim 43, wherein the sensor includes a sticky trap.

47. (New) The apparatus of claim 43, wherein the sensor includes a pheromone detector.

48. (New) The apparatus of claim 35, wherein the sensor includes a temperature sensor.

49. (New) The apparatus of claim 35, wherein the sensor includes an infrared sensor.

50. (New) The apparatus of claim 35, wherein the sensor includes a sugar accumulation sensor.

51. (New) The apparatus of claim 35, wherein the sensor includes a pH probe.

52. (New) The apparatus of claim 35, wherein the sensor includes a soluble solids sensor.

53. (New) The apparatus of claim 35, wherein the sensor includes a sugar accumulation sensor.

54. (New) An apparatus for dispensing materials to vegetation, the apparatus comprising

- a conduit including a channel;
- a plurality of outlets coupled to the channel for conveying a substance from the channel to the vegetation;
- a plurality of sensors coupled to the conduit, for sensing a condition related to growth of the vegetation; and
- a control circuit coupled to the conduit for controlling conveyance of the substance in response to the sensed condition.

55. (New) A method for dispensing a material to vegetation, the method comprising

- using a sensor to sense a condition relating to growth of the vegetation;
- dispensing the material via an outlet;
- controlling the dispensing of the material via the outlet by using a signal from the sensor, wherein the sensor and control circuit are in close proximity to the outlet.

56. (New) The method of claim 55, wherein the outlet coupled to a conduit having a channel, the method further comprising

- conveying the material to the outlet with the channel.

57. (New) The method of claim 56, wherein multiple outlets are coupled at different points along the conduit, wherein different sensors and control circuits are used to control different outlets.